

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
16 June 2005 (16.06.2005)

PCT

(10) International Publication Number
WO 2005/054128 A3

(51) International Patent Classification:
COLB 31/28 (2006.01) **A61K 51/00** (2006.01)

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(21) International Application Number:
PCT/IB2004/003907

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(22) International Filing Date:
29 November 2004 (29.11.2004)

(81) Designated States (unless otherwise indicated for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/526,720 3 December 2003 (03.12.2003) US

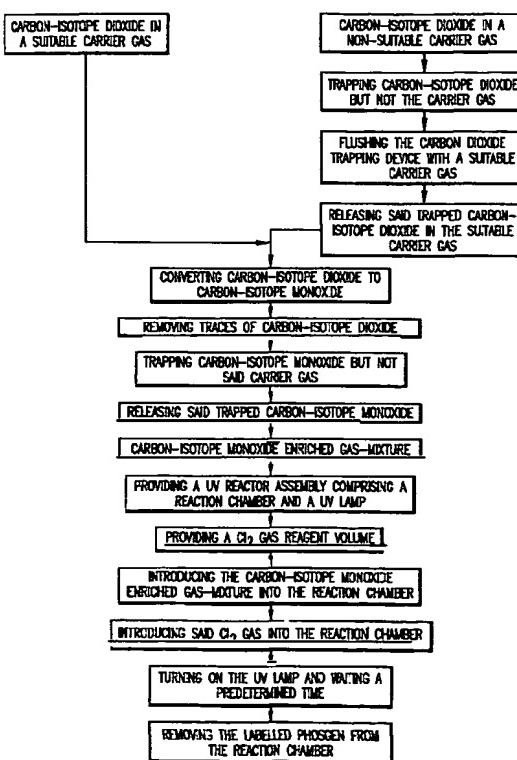
(84) Designated States (unless otherwise indicated for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),

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(54) Title: METHOD AND APPARATUS FOR SYNTHESIS OF [HC] PHOSGEN USING CONCENTRATED [^{11C}] CARBON MONOXIDE WITH UV LIGHT



(57) Abstract: Methods and systems for labeling synthesis of phosgen by UV light are provided. Methods of synthesizing labeled compounds useful as PET tracers from labeled phosgen are also provided. The resultant carbon-isotope labeled compounds are useful as radiopharmaceuticals, especially for use in Positron Emission Tomography. Associated kits for PET studies are also provided.

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European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- *with international search report*

(88) Date of publication of the international search report:
20 April 2006

For two-Letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.